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PRV46LCWLUNHB

Super Narrow Bezel High Bright Video Wall Display

Spec & User’s Guide

Primeview USA INC.

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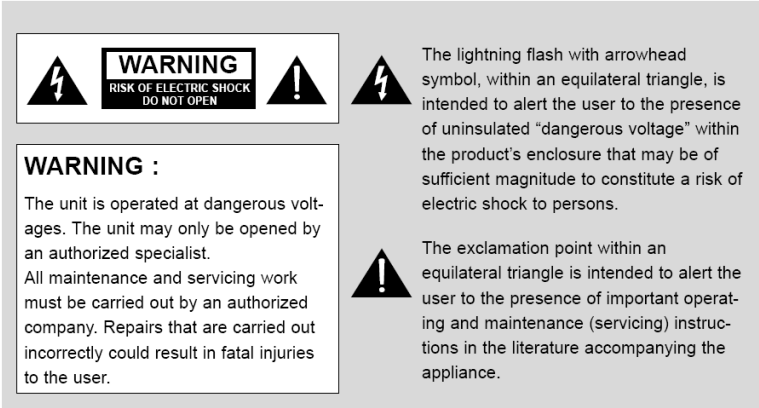
Precaution

Before operating the set, please read this manual carefully.


WARNING
RISK OF ELECTRIC SHOCK
DO NOT OPEN
WARNING :
The unit is operated at dangerous voltages. The unit may only be opened by an authorized specialist.
All maintenance and servicing work must be carried out by an authorized company. Repairs that are carried out incorrectly could result in fatal injuries to the user.
The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

To reduce the risk of electric shock does not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel. To prevent fire or shock hazard, do not expose the rear of the set to rain or moisture. Do not rub or strike the Active Matrix LCD with anything hard as this may scratch, mark, or damage the Active Matrix LCD permanently.

CAUTION:

Unauthorized tampering with the inside of the monitor invalidates the warranty.
The manufacturer shall not warrant for any damage caused by improper maintenance and/or repair work by third parties.

Important safeguards for you and your new product:
Your product has been manufactured and tested with your safety in mind. However, improper use can result in potential electrical shock or fire hazards. To avoid defeating the safeguards that have been built into your new product, please read and observe the following safety points when installing and using your new product and save them for future reference.

1. ***Read Instructions***

2. ***Follow Instructions***
   All operating and use instructions should be followed.

3. ***Retain Instructions***
   The safety and operating instructions should be retained for future reference.

4. ***Heed Warnings***
   All warnings on the product and in the operating instructions should be adhered to.

5. ***Cleaning***
   Disconnect the unit from the electricity supply before cleaning. Do not use abrasive cleaners. Use a damp cloth for cleaning.

6. ***Water and Moisture***
   Do not use this apparatus near water.

7. ***Transporting Product***
   A product and cart combination should be moved with care. Quick stops, excessive force and uneven surfaces may cause the product and cart combination to overturn.

8. ***Attachments***
   Do not use attachments not recommended by PINE Graphics Inc. as they may cause hazards.

9. ***Ventilation***
   Do not block any of the ventilation openings.
   Install in accordance with the manufacturer's instructions.

10. ***Power Sources***
    This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your supplying dealer.

11. ***Power Lead Polarization***
    This product is equipped with a three-wire grounding-type cord. This is a safety feature. Do not defeat the safety purpose of the grounding-type cord.

12. ***Power Cord Protection***
    Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles and the point where they exit from the product.

13. ***Outdoor Cable Grounding***
    If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. A "face plate" also needs to be installed with an isolating capacitor to prevent any damage from static.

14. ***Lightning***
    For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent possible damage to the product due to lightning and power-line surges.

15. ***Power Lines***
    An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to avoid contact with such power lines or circuits, as contact with them might be fatal.

16. ***Earthling the product***
    This product must be earthed properly to comply with the safety regulations in the country of use. If you are unsure of these regulations, please consult a qualified electrician.

17. ***Servicing***
    Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltages or other hazards. Refer all servicing to qualified service personnel. If the Set does not operate properly, switch it off and call your dealer.

18. ***Damage Requiring Service***
    Isolate this product from the mains supply and refer servicing to qualified service personnel under the following conditions:

    A. If the power-supply cord or plug is damaged.
    B. If the glass front has been damaged.
    C. If there is ingress of water between the glass and the LCD screen.
    D. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
    E. If the product has been dropped or the cabinet has been damaged.
    F. If the product exhibits a distinct change in performance.

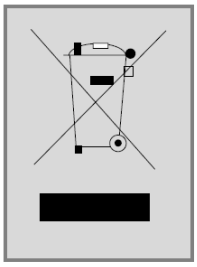
19. ***Safety Check***
Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition and the front seal is intact.

20. ***Mounting***
The product should be mounted on a wall only as recommended in the instructions.

21. ***Power***
This set operates on an AC supply; the voltage is as indicated on the label on the Manual. This appliance must be earthed at all times through the chassis as well as through the power lead.

22. ***Location***
Do not install on an unstable location with support area smaller than the DID SET.
Please secure enough space for safety use.

Note



This product is designed and manufactured with high quality materials and components which can be recycled and reused.
This symbol means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from your household waste.
Please, dispose of this equipment at your local community waste collection/recycling centre.
In the European Union there are separate collection systems for used electrical and electronic product.
Please, help us to conserve the environment we live in!

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Including

Supplied Accessories

Make sure the following accessories are provided with your product. These should all be included in the box with the main LCD screen

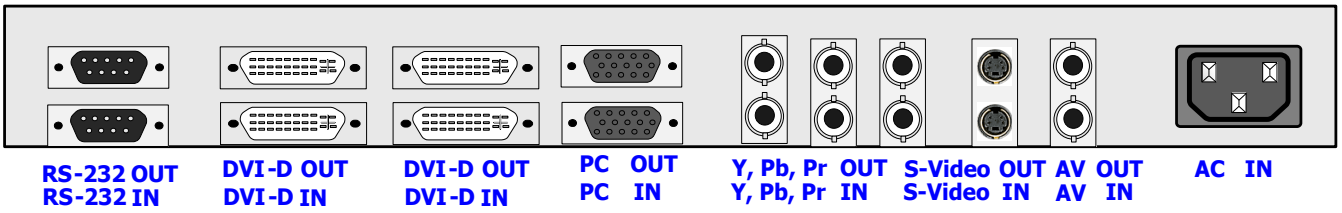
DEFECT PIXEL THAT CAN BE SEEN ON LCD MONITOR SCREEN

Remote Controller

- Remove the rear cover of the remote controller by pressing the arrow Symbol downwards and then pulling firmly to remove it.
- Insert two supplied batteries (1.5V of AAA type).
- Ensure that the polarities (+ and -) of the batteries are aligned correctly. Close the cover.

Operations

Connection Details



Interface description

Interface	Description
AC Inlet	AC90V ~ 240V, 50Hz/60Hz
AC Switch	Main Isolating Switch
DVI-D1 Input	DVI-D Type Digital input High Definition Multimedia Input Compatible
DVI-D1 Output	DVI-D Type Digital output / All mode output (current mode) High Definition Multimedia Input Compatible
DVI-D2 Input	DVI-D Type Digital input
DVI-D2 Output	DVI-D Type Digital output / All mode output (current mode)
PC Input	Analog PC Video Input
PC Output	Analog PC Video output Only PC Mode output
RS-232 Input	Facility to control the screen via RS232 protocol input
RS-232 Output	Facility to control the screen via RS232 protocol output/bypass function.
Component Input	Y(RCA green), Pb(RCA blue), Pr(RCA red) Component Video input
Component Output	Y(RCA green), Pb(RCA blue), Pr(RCA red) Component Video output
AV Input	CVBS / Composite Input
AV Input	CVBS / Composite output
S-Video Input	Y, C input
S-Video Output	Y, C output

Specifications & Ratings

Specifications

Items		Specifications
Display	Panel	46” E-DID SNB/SOLAR-VIEW
	Resolution	1366 (Horizontal) x 768 (Vertical) Resolution
	Brightness	1540cd (2,200:1 Contrast Ratio)
	Viewing Angle	178 (Horizontal) / 178 (Vertical)
Supported Signals	Analog PC	H Frequency Range : 20~82 kHz
		V Frequency Range : 55 ~ 90 Hz
		Maximum resolution :1920x1080 60Hz
		Maximum pixel rate : 170 MHz
		DTV mode support : 720P, 1080i, 1080p
		Separate / Composite / SOG sync support
	Digital PC	H Frequency Range : 20~82 kHz
		V Frequency Range : 55 ~ 90 Hz
		Maximum resolution : 1920x1080 60Hz
		Maximum pixel rate : 170 MHz
		DTV mode support: 720P/1080i/1080p
	Component(DTV/DVD)	1080p / 1080i / 720p / 576p / 576i / 480p / 480i
	CVBS, S-Video	NTSC, PAL Standard
Connector (Video In)	AV	BNC CVBS In (75 ohm, 1.0Vp-p)
	S-Video	SVHS Y/C In (75 ohms, 1.0/0.3 Vp-p)
	Component	Y-Cb/Pb-Cr/Pr RCA In (75 ohms, 0.7Vp-p)
	PC (RGB)	DSUB In (Analogue: 75 ohms ±10%, 0.7Vp-p ±5%)
	DVI1/2	TMDS In (Digital Signal)
Connector (Video Out)	AV	BNC CVBS Out (75 ohm, 1.0Vp-p)
	S-Video	SVHS Y/C Out (75 ohms, 1.0/0.3 Vp-p)
	Component	Y-Cb/Pb-Cr/Pr BNC Out (75 ohms, 0.7Vp-p)
	PC (RGB)	DSUB Out (Analogue: 75 ohms ±10%, 0.7Vp-p ±5%)
	DVI1/2	TMDS Out (Digital Signal)
OSD	Color	16 color (16,256 Color Palette)
	OSD Type	Graphic & text
	Language Support	Unicode string format English, German, French, Spanish, Portuguese.
Power	AC Input Voltage	90V ~ 240V (50/60Hz)
	Power Consumption	300W
Conditions	Operating Temperature	0℃ ~ 40℃ (32℉~ 104℉)
	Operating Humidity	20% ~ 85% (Non Dew)
	Storage Temperature	-10℃ ~ 50℃ (14˚F ~ 122˚F)
	Storage Humidity	10% ~ 90% (Non Dew)
Mechanics	Housing	Full Metal Back Covered
	Dimension	1025.7mm x 579.88mm x 105.23mm
	Net Weight	32Kg

Supported Video Timing

Section	Resolution	H Frequency (kHz)	V Frequency (Hz)	Pixel Frequency (MHz)	Comment
PC	640x400	37.861	85.08	31.5	
	640x350	31.469	70.087	25.175	
	640x350	37.861	85.08	31.5	
	640x480	31.469	59.94	25.175	
	640x480	35.000	66.667	30.24	
	640x480	37.861	72.809	29.765	
	640x480	37.500	75.0	31.5	
	640x480	43.269	85.008	36.0	
	640x480	45.540	90.0	37.889	
	720x400	31.469	70.087	28.322	
	720x400	37.927	85.039	35.5	
	800x600	35.156	56.25	36.0	
	800x600	37.879	60.317	40.0	
	800x600	43.764	70.02	45.513	
	800x600	48.077	72.188	50.0	
	800x600	46.875	75.0	49.5	
	800x600	53.674	85.061	56.25	
	800x600	56.250	90.0	60.065	
	1024x768	48.780	60.001	64.11	
	1024x768	48.363	60.004	65.0	
	1024x768	56.476	70.069	75.0	
	1024x768	57.703	72.039	78.476	
	1024x768	60.241	74.927	81.724	
	1024x768	60.030	75.029	78.75	
	1024x768	68.677	84.997	94.5	
	1152x864	67.500	75.0	104.993	
	1152x870	68.681	75.062	100.0	
	1152x900	61.846	66.0	94.787	
	1280x720	47.760	60.0	74.481	
	1280x768	60.150	75.0	102.977	
	1280x960	60.000	60.0	102.104	
	1280x1024	63.337	59.978	108.18	
	1280x1024	63.981	60.02	108.0	
	1280x1024	63.600	60.0	108.883	
	1280x1024	64.754	60.06	108.992	
	1360x768	47.700	60.0	84.700	
	1600x1200	75.000	60.0	162.000	4:3 Mode Only

DTV	720x480	15.735	59.94	13.500	Interlaced
	720x576	15.735	50.0	13.595	Interlaced
	720x480	31.469	59.94	25.175	
	720x576	31.250	50.0	26.566	
	1280x720	44.964	59.94	74.176	
	1280x720	37.500	50.0	60.466	
	1920x1080	33.750	60.0	74.25	Interlaced
	1920x1080	28.125	50.0	70.723	Interlaced
	1920x1080	31.250	50.0	72.000	Interlaced
	1920x1080	67.5	60	148.5	
	1920x1080	67.5	50	148.5	

OSD / RCU Control Board

OSD Control Board:

It provides certain functions to have clear image and others. This board supports 7 buttons OSD operation as a standard. The control functions defined on OSD operation are as below. (Unit: mm)

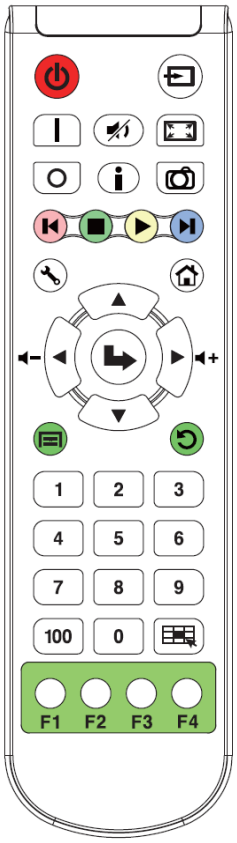
LED OPERATIONS

Status	Color	Operation
Power Off	Red	On
Normal	Green	On

KEY OPERATIONS

Key Name	Operation
Power Key	► Power On/Off.
Menu Key	► Activates main OSD menu. ► Navigates higher menu in main OSD menu. ► Exits OSD menu.
Select Key (Source Key)	► Rotates & selects input source. ► Executes functions (by OSD help commands) in main OSD menu.
Up Key	► Executes function (by OSD help commands) in main OSD menu. ► Navigates previous menu in main OSD menu.
Down Key	► Executes function (by OSD help commands) in main OSD menu. ► Navigates next menu in main OSD menu.
Left Key	► Decreases sound volume of speaker. ► Executes function (by OSD help commands) in main OSD menu. ► Decreases values of user menu in main OSD menu.
Right Key	► Increases sound volume of speaker. ► Executes function by OSD help commands in main OSD menu. ► Increases values of user menu in main OSD menu.

IR-REMOTE CONTROLLER

Picture	Key Name	Operation
	Power	► Power On/Off
	Power On	► Power On
	Power Off	► Power Off
	Menu	► Same as "Menu key" on keypad.
	Up	► Same as "Up key" on keypad
	Down	► Same as "Down key" on keypad
	Right	► Same as "Right key" on keypad
	Left	► Same as "Left key" on keypad
	Enter	► Same as "Enter key" on keypad in Menu
	Exit	► Escape from menu navigation
	Info	► Displays input source information
	Mute	► Toggles sound mute status of speaker.
	Source	► Rotates & selects video input source.
	Number Keys	► Set ID number
	Select Screen	► Activate screen ID to select

Daisy Chained IR Control for Multi Display

In case of multi display installation with daisy chained IR control, all the displays receive IR command. They can be controlled individually by ID selection.

When pressing Select Screen button, pop up window appears as below picture.

ID is current screen's ID number. Active ID is screen ID number which IR command working on.

Press number key of screen ID to be controlled.
In example, if ID 2 should be active, press '0', '2'. Only screen ID 02 works by IR command after selection.
ID 0 is wild card number, when setting number '0', all the screen works by IR command.

MENU OVERVIEW

In this menu system, there are several ways to customize the menu settings provided.
Most menus consist of three levels to set up the options, but some require greater depth for the variety of settings. If you press the **MENU** button, only the first and second level of the menu system will appear on the monitor screen. The third level can be displayed by pressing **ENTER** (or ▸). If a menu has more than three levels, the pop-up dialogue box will be displayed as the fourth or fifth level.

To show and remove the Menu

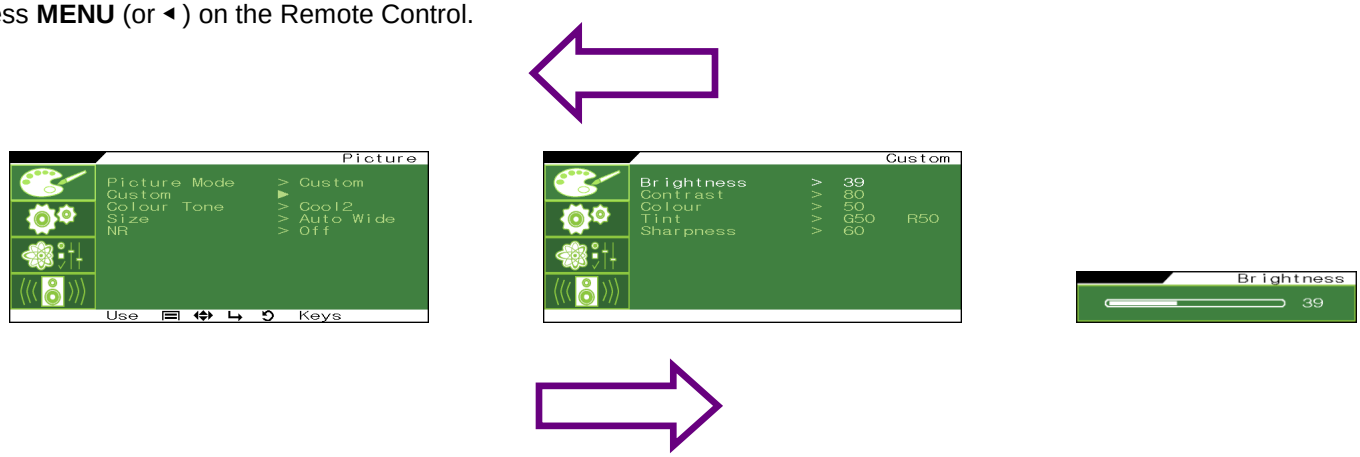
Press the **MENU** button on the Remote Control to display the menu. A second press of the **MENU** button or a press of the **EXIT** button will take you back to monitor viewing.

To go to the next level:

Press **ENTER** (or ▸) on the Remote Control.

To go back to the previous level:

Press **MENU** (or ◂) on the Remote Control.



Typical Menu Operation

1. Press **MENU** button: The main menu will appear.
2. Use ▲/▼ to select the desired menu option (icon).
3. While the desired menu option is selected, press ▸ or (**ENTER**) to move to the second level.
4. Use ▲/▼ to select the second menu option.
5. Press ▸ or (**ENTER**) to move to the third level: Some menu options require additional steps.
6. Press **MENU** to return to the previous menu or press **EXIT** on the Remote Control to return to monitor viewing.

BASIC OPERATION

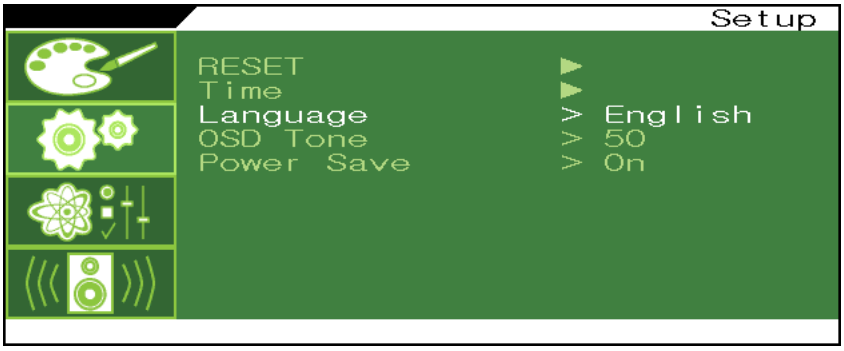
Turning On the Monitor

1. First, connect power cord correctly. At this moment, the monitor switches to standby or power on mode. In standby mode, in order to turn monitor on, press the **POWER or POWER On** button on the remote control.
2. Select the viewing source by using **SOURCE** button on the remote control.

Volume Adjustment

1. Press the VOL+/- ◂/▸ button to adjust the volume.
2. If you want to switch the sound off, press the **MUTE** button on the remote control.
3. You can cancel this function by pressing the **MUTE** or VOL+/- ◂/▸ button.

On Screen Menus Language Selection



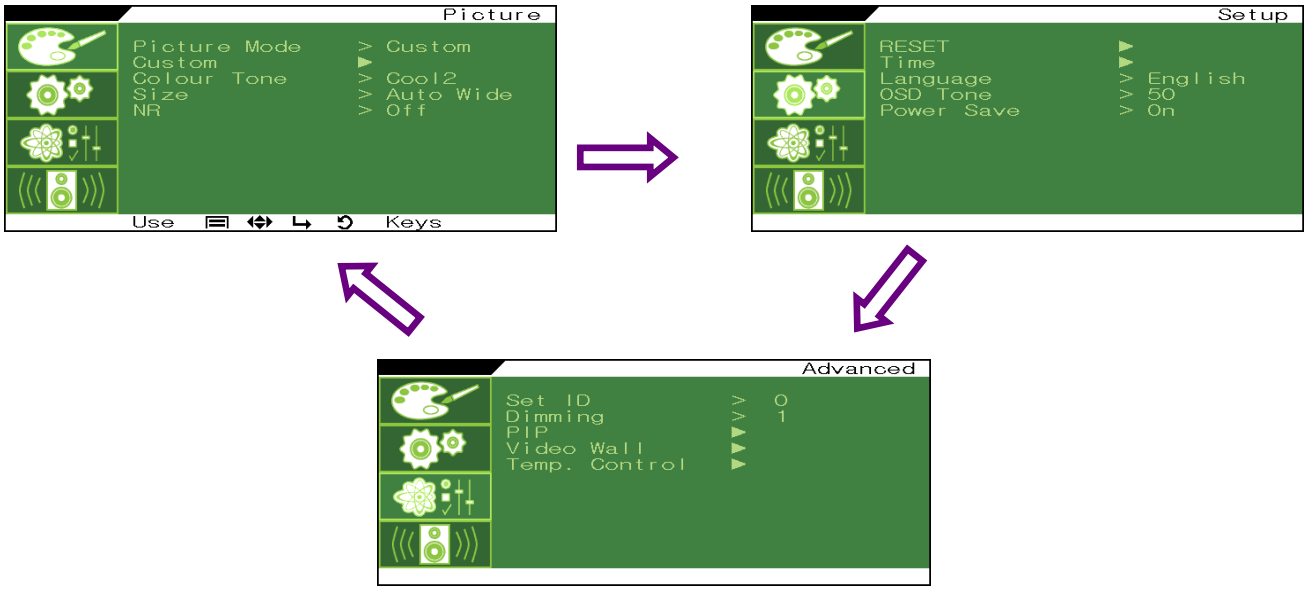
- The menus can be shown on the screen in the selected language. First select your language.

1. Press the **MENU** button and then use ▲/▼ button to select the **SETUP** icon.
2. Press the ▸ button and then use ▲/▼ button to select **Menu Language** menu.
3. Press the ◂/▸ button to select your desired language: From this point on, the on-screen menus will be shown in the selected language.
4. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

On Screen Menus Selection and Adjustment

How to adjust the OSD screen

1. Press the **MENU** button and then ▲/▼ button to select each menu.
2. Press the ▸ button and then use ▲/▼/◂/▸ button to display the available menus.

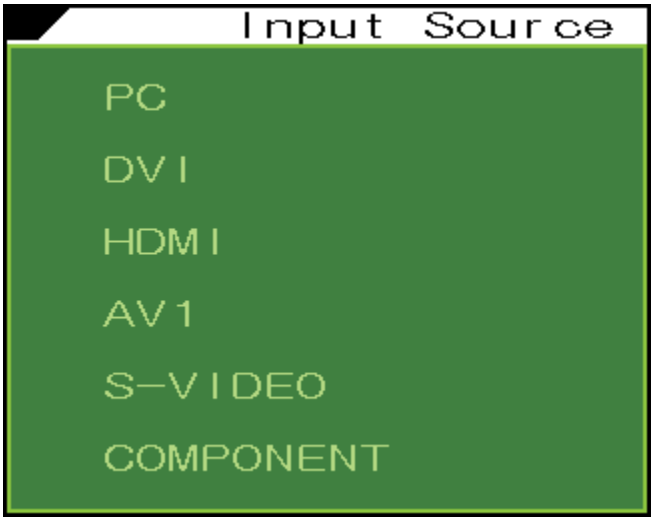


- Your monitor's OSD (On Screen Display) may differ slightly from what is shown in this manual.

SELECT VIDEO INPUT

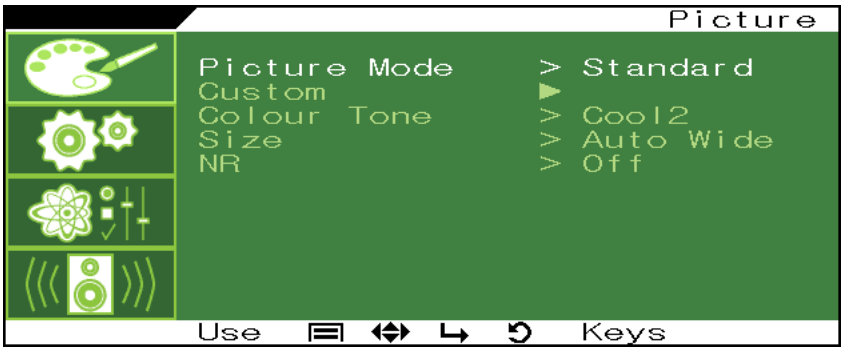
How to Select Video Source Directly

1. Press the **SOURCE** button and then ▲/▼ button to select each video source.
2. Press the ▶ / **SELECT** button to go to desired video source



PICTURE MENU

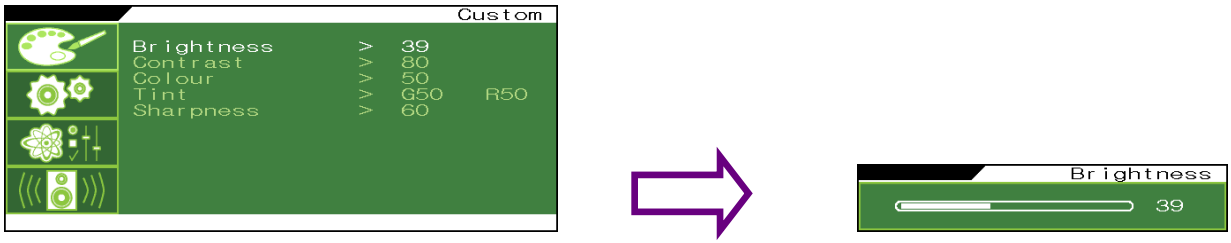
Picture Mode



- Select the predefined picture setting to suit your preference and viewing situations.

1. Press the **MENU** button and then ▲/▼ button to select the **Picture**.
2. Press the ▲/▼ button to select the **Custom**.
3. Press the ▸ /**ENTER** button and then use ▲/▼ button to select the desired picture mode;
   ➲ **Standard**, **Film, Mild, Custom, Dynamic**
4. Press ▸ /**ENTER** button and then use ◂ /▸ button to make appropriate adjustments.
5. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

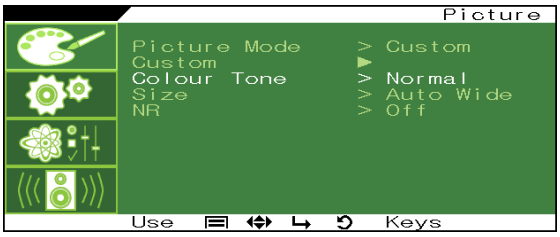
Custom User Control



- Adjust the picture appearance to suit your preference and viewing situations.

6. Press the **MENU** button and then ▲/▼ button to select the **Picture**.
7. Press the ▲/▼ button to select the **Custom**.
8. Press the ▸ /**ENTER** button and then use ▲/▼ button to select the desired picture option;
   ➲ **Contrast**, **Brightness, Sharpness, Tint, Color, Phase**
9. Press ▸ /**ENTER** button and then use ◂ /▸ button to make appropriate adjustments.
10. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

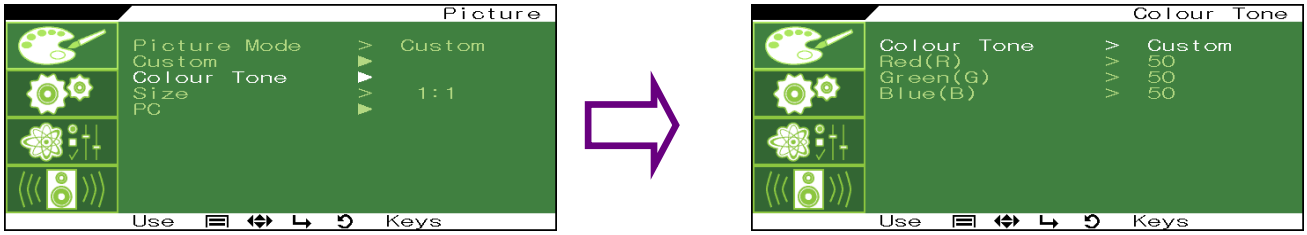
Color Tone Control



- Choose one of five preset color adjustments. Set to warm to enhance hotter colors such as red, or set to cool to see less intense colors with more blue.

1. Press the **MENU** button and then ▲/▼ button to select the **Picture**.
2. Press the ▸ /**ENTER** button and then use ▲/▼ button to select **Color Tone** menu.
3. Press ◂ /▸ button to make appropriate adjustments.
4. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

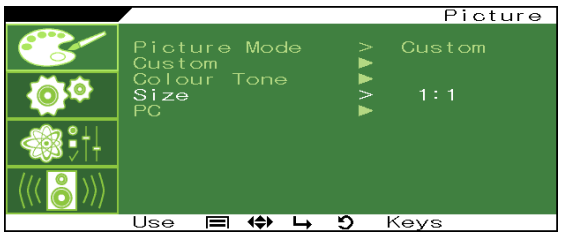
Custom Color Tone Control (PC Input)



- Choose Custom of Color Tone. Set to warm to enhance hotter colors such as red, or set to cool to see less intense colors with more blue.

1. Press the **MENU** button and then ▲/▼ button to select the **Picture**.
2. Press the ▸ /**ENTER** button and then use ▲/▼ button to select **Color Tone** menu.
3. Press the ▸ /**ENTER** button and then use ▲/▼ button to select desired option:
   ➲ **Red, Green, Blue**.
4. Press ▸ /**ENTER** button and then use ◂ /▸ button to make appropriate adjustments.
5. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

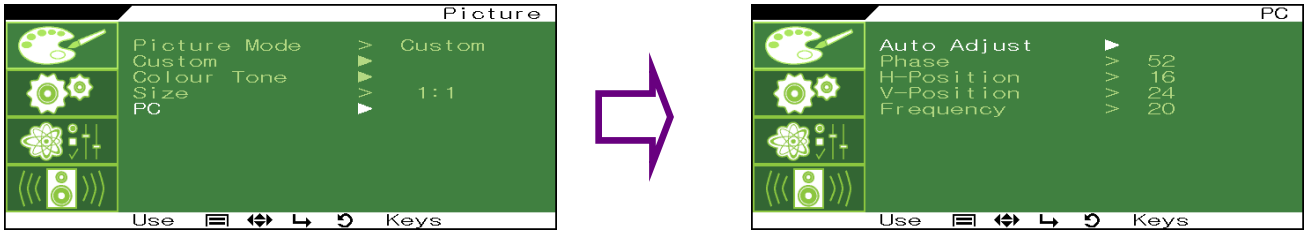
Picture Size



- Select aspect ratio of image

1. Press the **MENU** button and then ▲/▼ button to select the **Picture**.
2. Press the ▸ /**ENTER** button and then use ▲/▼ button to select **Size** menu.
3. Use ◂ /▸ button to make appropriate adjustments.
4. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

PC Menu

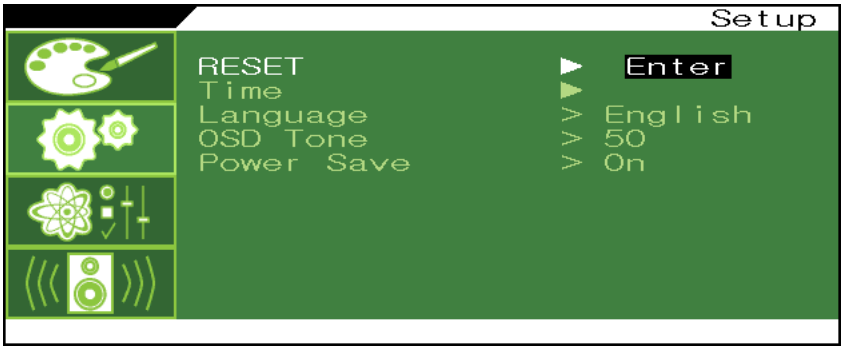


1. Press the **MENU** button and then use ▲/▼ button to select the **PC**.
2. Press the ▸ /**ENTER** button and then use ▲/▼ button to select **PC Menus**.
3. Press ▸ /**ENTER** button and then use ◂ /▸ button to make appropriate adjustments.
   ➲ **Auto Adjust, Phase, H-Position, V-Position, Frequency**
4. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

SETUP MENU

Reset

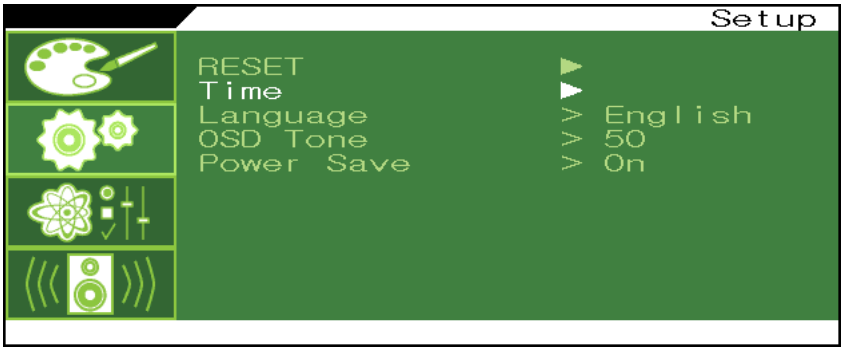
Resets user setting values as default



1. Press the **MENU** button and then use ▲/▼ button to select the **Setup**.
2. Press the ▸ /**ENTER** button and then use ▲/▼ button to select **Reset** menu.
3. Press ▸ /**ENTER** button and then monitor’s user settings are reset as default.

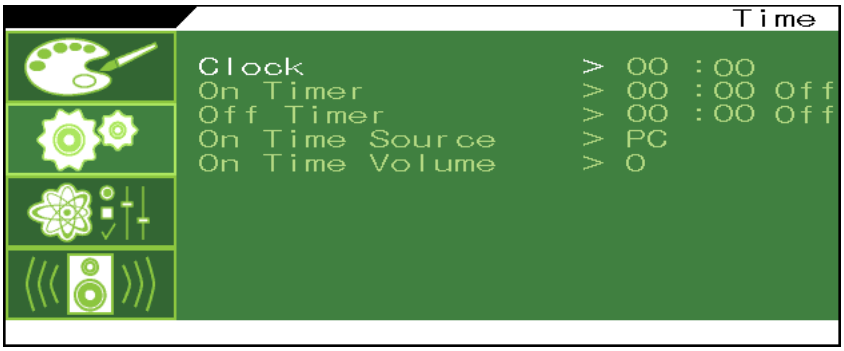
Time Settings

Enable the user to set up the clock information.



Clock

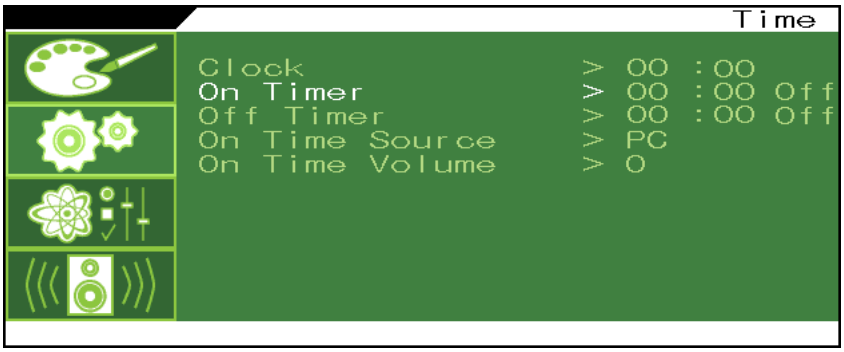
If current time setting is wrong, reset the clock manually.



1. Press the **MENU** button and then use ▲/▼ button to select the **Setup.**
2. Press the ▸ /**ENTER** button and then use ▲/▼ button to select **Time**.
3. Press the ▸ /**ENTER** button and then use ▲/▼ button to select **Clock**.
4. Press ▸ /**ENTER** button and then use ◂ /▸ button to select the **Hour**, **Minute**.
5. Use ▲/▼ button to adjust clock.
6. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

On Timer

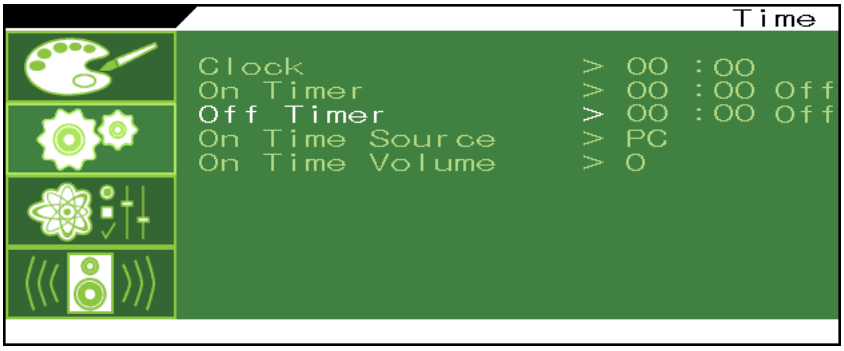
Timer function operates only if current time has been set.



1. Press the **MENU** button and then use ▲/▼ button to select the **SETUP.**
2. Press the ▸ /**ENTER** button and then use ▲/▼ button to select **Time**.
3. Press the ▸ /**ENTER** button and then use ▲/▼ button to select **On Timer**.
4. Press ▸ /**ENTER** button and then use ◂ /▸ button to select the **Hour**, **Minute and Activation**.
5. Use ▲/▼ button to adjust on time schedule and activation.
6. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

Off Timer

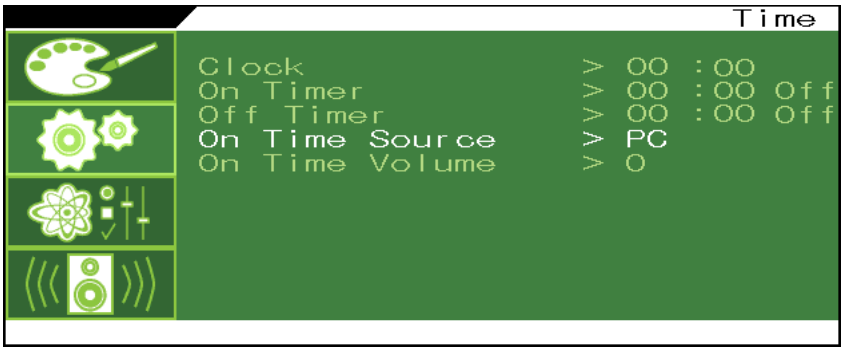
Timer function operates only if current time has been set.



1. Press the **MENU** button and then use ▲/▼ button to select the **Setup.**
2. Press the ▸ /**ENTER** button and then use ▲/▼ button to select **Time**.
3. Press the ▸ /**ENTER** button and then use ▲/▼ button to select **Off Timer**.
4. Press ▸ /**ENTER** button and then use ◂ /▸ button to select the **Hour**, **Minute and Activation**.
5. Use ▲/▼ button to adjust on time schedule and activation.
6. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

On Time Source

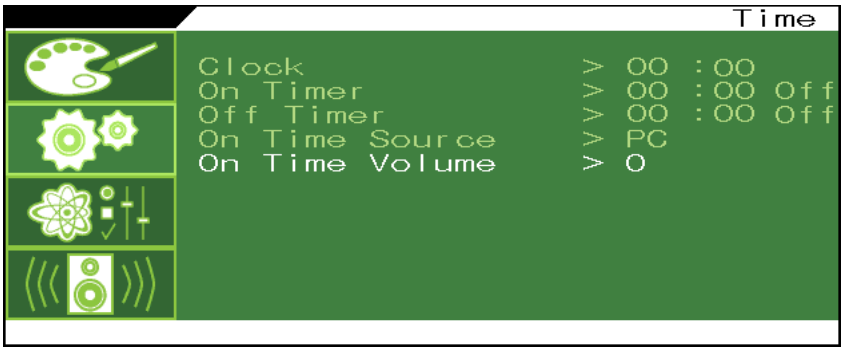
Select Video Input Source when waking up by On Timer.



1. Press the **MENU** button and then use ▲/▼ button to select the **Setup.**
2. Press the ▸ /**ENTER** button and then use ▲/▼ button to select **Time**.
3. Press the ▸ /**ENTER** button and then use ▲/▼ button to select **On Time Source**.
4. Press ▸ /**ENTER** button and then use ◂ /▸ button to select the **Input Source**.
5. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

On Time Volume

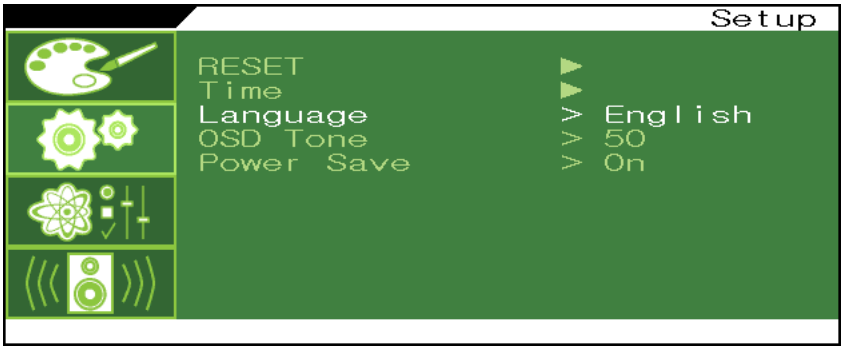
Select Sound Volume when waking up by On Timer.



1. Press the **MENU** button and then use ▲/▼ button to select the **Setup.**
2. Press the ▸ /**ENTER** button and then use ▲/▼ button to select **Time**.
3. Press the ▸ /**ENTER** button and then use ▲/▼ button to select **On Time Source**.
4. Press ▸ /**ENTER** button and then use ◂ /▸ button to adjust **Volume**.
5. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

Language

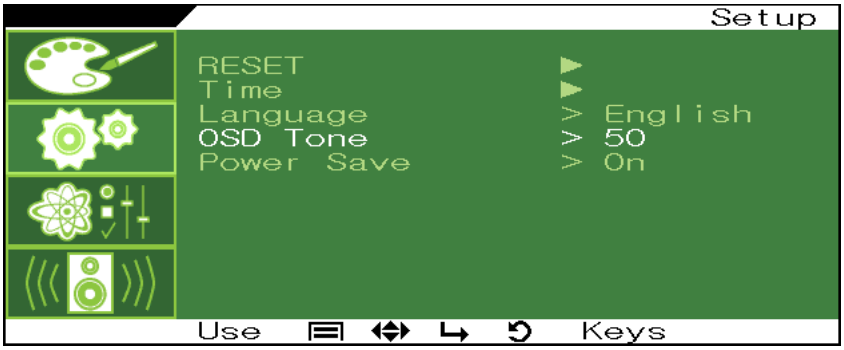
- Select a language for the menus to appear in.



1. Press the **MENU** button and then use ▲/▼ button to select the **Setup.**
2. Press the ▸ /**ENTER** button and then use ▲/▼ button to select **Language**.
3. Press ▸ /**ENTER** button and then use ◂ /▸ button to select the desired option:
   - ➲ **English, French, German, Italian, Spanish.**
4. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

OSD Tone

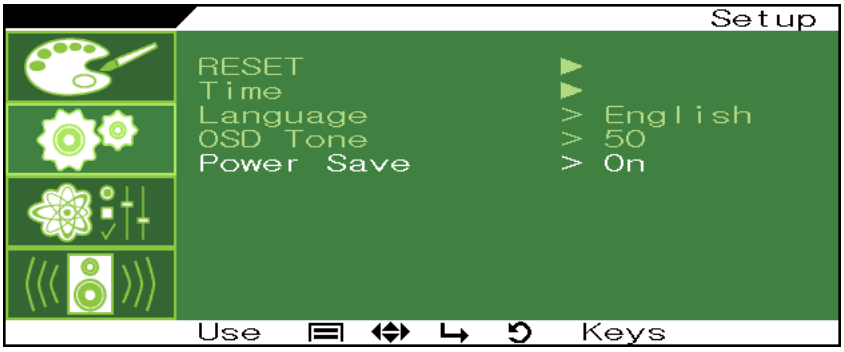
- Adjust OSD's background blend level



1. Press the **MENU** button and then use ▲/▼ button to select the **Setup.**
2. Press the ▸ /**ENTER** button and then use ▲/▼ button to select **OSD Tone**.
3. Press ▸ /**ENTER** button and then use ◂ /▸ button to adjust value.
4. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

Power Save Mode

- Select option for power save mode when no PC signal is active.

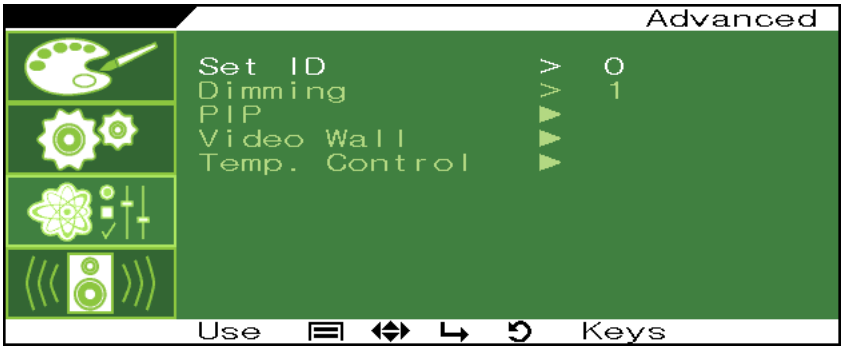


1. Press the **MENU** button and then use ▲/▼ button to select the **Setup.**
2. Press the ▸ /**ENTER** button and then use ▲/▼ button to select **Power Save**.
3. Press ▸ /**ENTER** button and then use ◂ /▸ button to select the desired option:
   - ➲ **On/Off**
4. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

Advanced Menu

Set ID

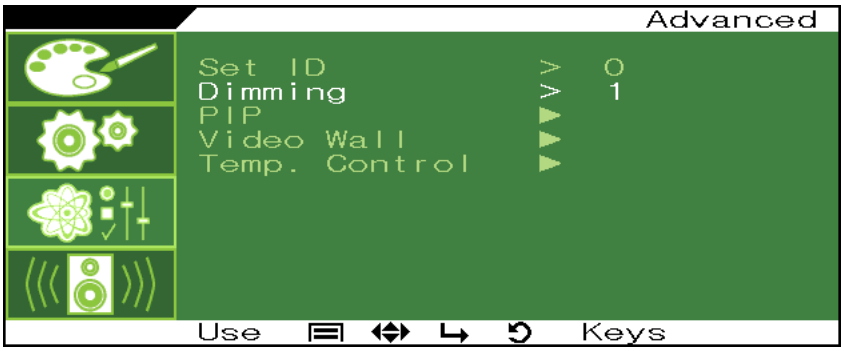
- Adjust ID No. of screen for multi serial control.
- ID No. zero is wild-card number (Screen doesn't care ID No).



1. Press the **MENU** button and then use ▲/▼ button to select the **Advanced.**
2. Press the ▸ /**ENTER** button and then use ▲/▼ button to select **Set ID**.
3. Press ◂ /▸ button to adjust the desired value.
4. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

Dimming Control

- Control the dimming level of LCD backlight.



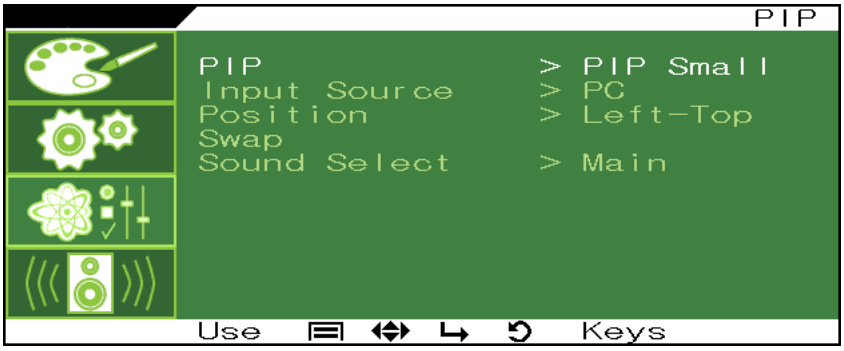
1. Press the **MENU** button and then use ▲/▼ button to select the **Advanced.**
2. Press the ▸ /**ENTER** button and then use ▲/▼ button to select **Dimming**.
3. Press ◂ /▸ button to adjust the desired value.
4. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

PIP Menu

- Picture-In-Picture setup

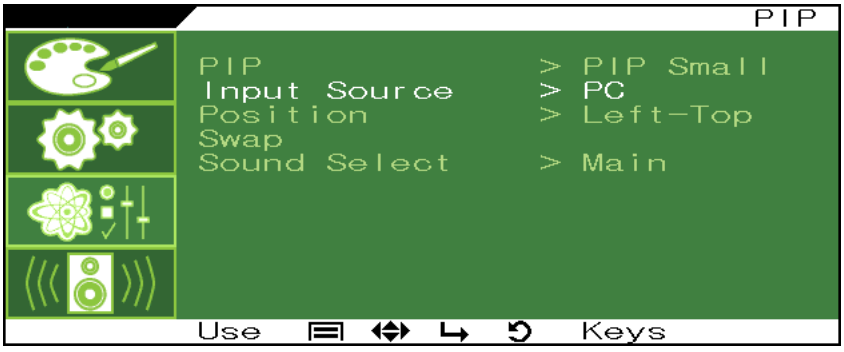
1. Press the **MENU** button and then use ▲/▼ button to select the **Advanced.**
2. Press the ▸ /**ENTER** button and then use ▲/▼ button to select **PIP**
3. Press the ▸ /**ENTER** button.

PIP Control



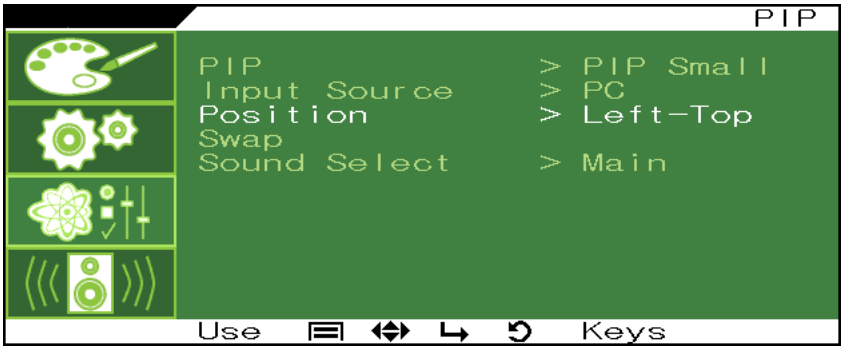
1. Press ▲/▼ button to select **PIP.**
2. Press ◂ /▸ button to adjust the desired value
3. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

PIP Input Select



1. Press ▲/▼ button to select **INPUT SOURCE.**
2. Press ◂ /▸ button to adjust the desired input
3. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

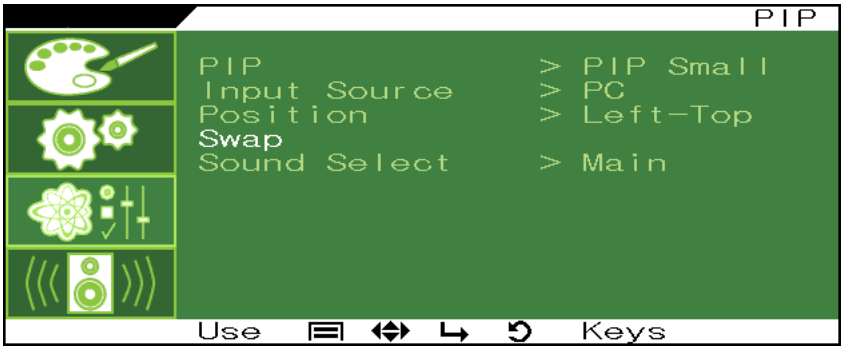
PIP Position Setting



1. Press ▲/▼ button to select **POSITION.**
2. Press ◄/► button to adjust the desired position. (It work in PIP small/large mode)
3. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

PIP Swap

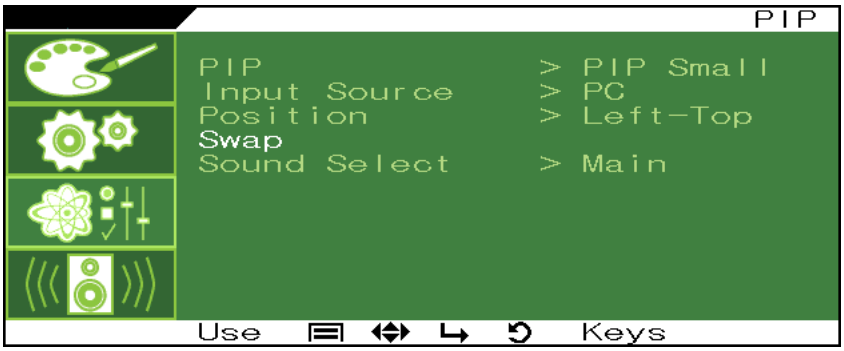
Swap main/sub video input.



1. Press ▲/▼ button to select **SWAP.**
2. Press **OK** button to swap main/sub video.
3. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

Sound Select

Select main/sub video's sound input to audio out.

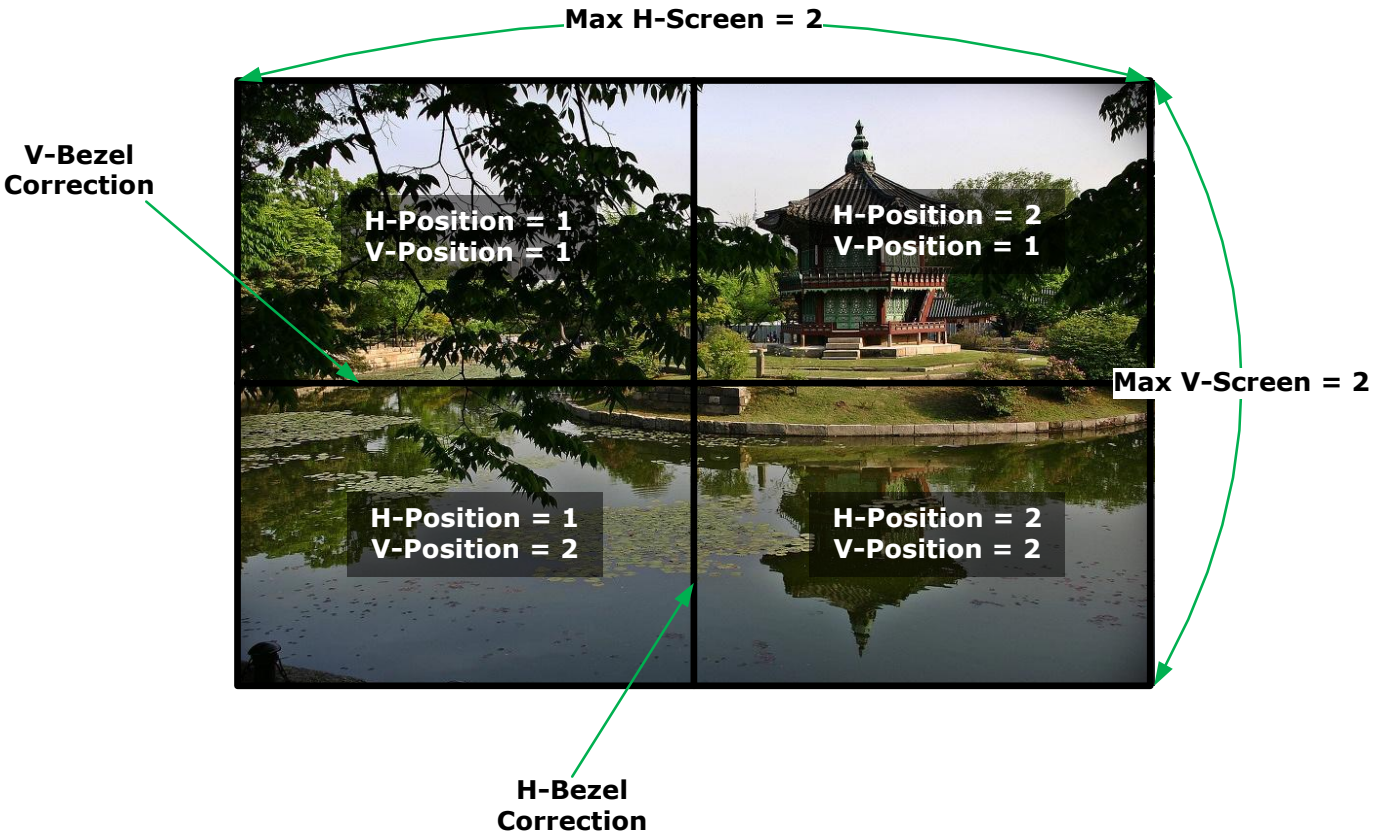


1. Press ▲/▼ button to select **SOUND SELECT.**
2. Press ◂/▸ button to adjust the desired sound source.
3. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

Video Wall Control Menu

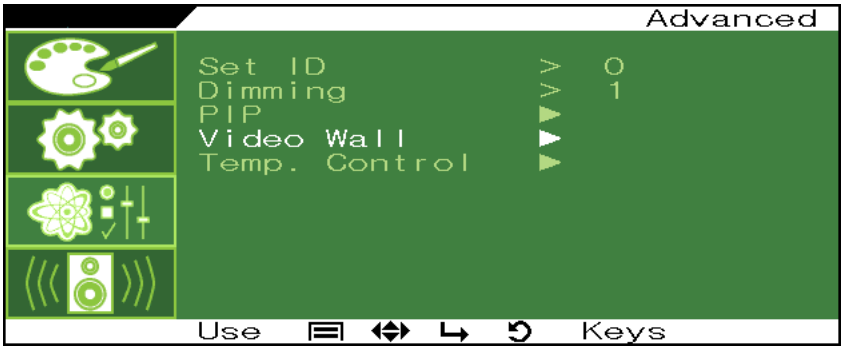
- *Adjust video wall lay-out and configure display positions for multi display.*

Video wall parameters



- *Max H-Screen : Number of horizontal screens to divide image.*
- *Max V-Screen : Number of vertical screens to divide image.*
- *H-Position : Horizontal position of divided image.*
- *V-Position : Vertical position of divided image.*
- *H-Bezel Correction : Horizontal bezel correction value for natural video wall image.*
- *V-Bezel Correction : Vertical bezel correction value for natural video wall image.*

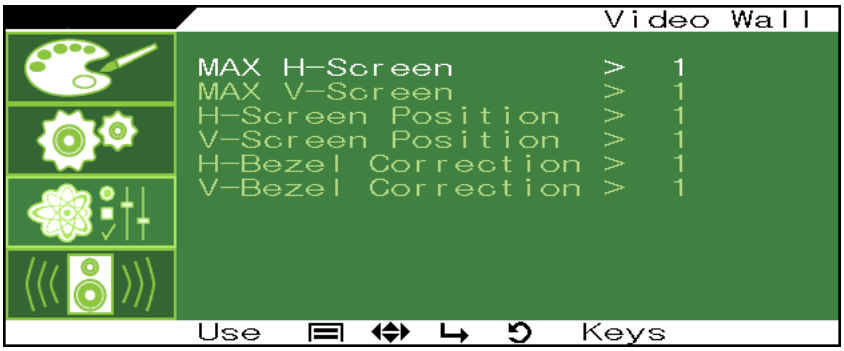
Video Wall Menu Setup



1. Press the **MENU** button and then use ▲/▼ button to select the **SETUP.**
2. Press the ▸ /**ENTER** button and then use ▲/▼ button to select the **Advanced** Menu.
3. Press the ▸ /**ENTER** button and then use ▲/▼ button to select the **Video Wall** Menu.
4. Press the ▸ /**ENTER** button and then use ▲/▼/◂ /▸ button to set Temperature Control options.
5. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu

Max H/V Screen Setup

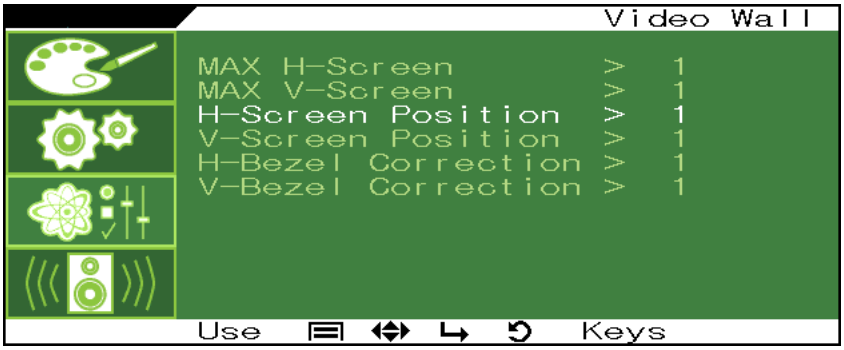
- *Adjusts number of horizontal/vertical screens to divide image*



1. Press ▲/▼ button to select the **MAX H-Screen / V-Screen** functions.
2. Press the ◂ /▸ button to adjust number of screens.
3. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

Horizontal / Vertical Screen Position Setup

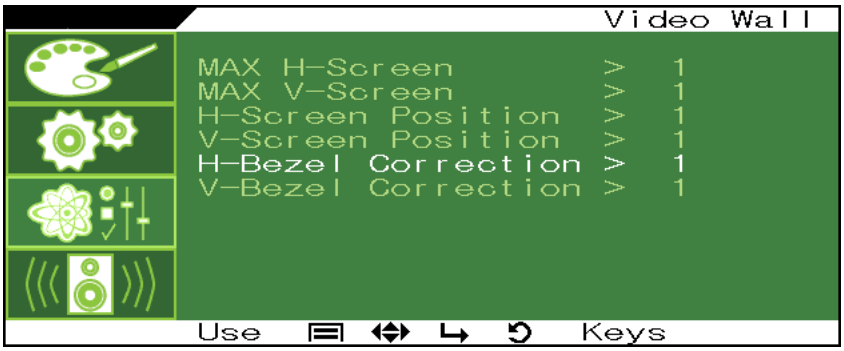
- *Adjusts horizontal / vertical position to show the divided image.*



1. Press ▲/▼ button to select the **H-Screen / V-Screen Position** functions.
2. Press the ◂/▸ button to adjust position of divided image.
3. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

Horizontal / Vertical Bezel Correction Setup

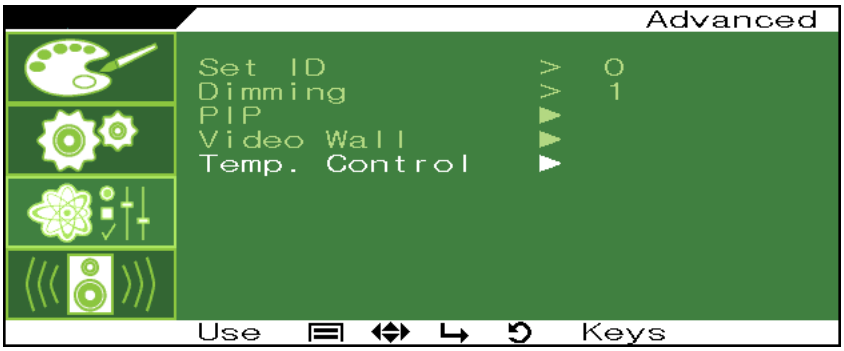
- *Adjusts horizontal / vertical value of bezel correction to show the divided image naturally.*



1. Press ▲/▼ button to select the **H-Bezel / V-Bezel Correction** functions.
2. Press the ◂/▸ button to adjust correction value until image looks naturally.
3. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

Temperature Control Menu

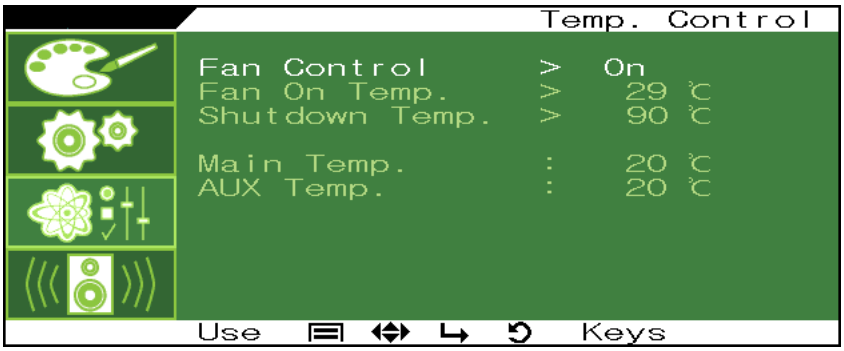
- *Automatic Fan controls by temperature sensor.*



1. Press the **MENU** button and then use ▲/▼ button to select the **Advanced.**
2. Press the ▸ /**ENTER** button and then use ▲/▼ button to select the **TEMP. Control** Menu.
3. Press the ▸ /**ENTER** button and then use ▲/▼/◂ /▸ button to set Temperature Control options.
4. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

Fan Control Option

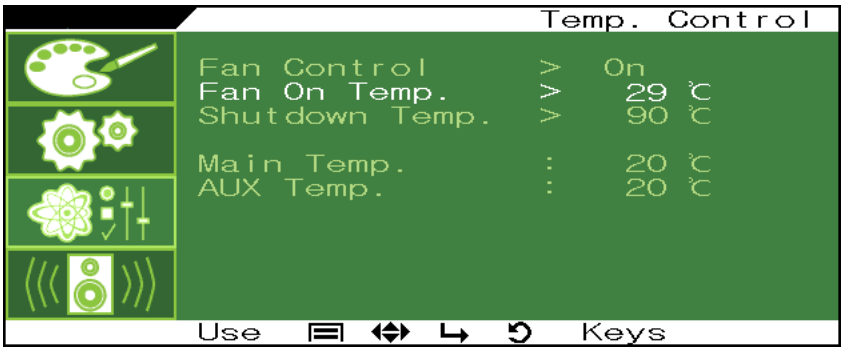
- *Controls fan driving option by temperature sensor / force on / force off*



4. Press ▲/▼ button to select the **Fan Control** functions.
5. Press the ◂ /▸ button to set **Off, On, Auto** options.
6. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

Fan On Temperature

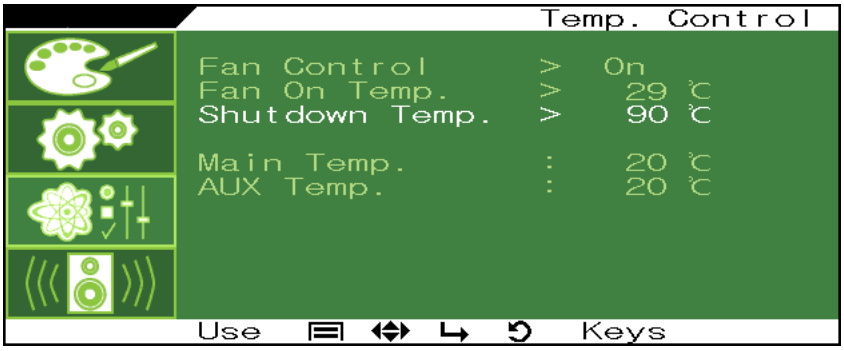
- *Adjusts fan driving temperature by Celsius degree. It works only when the Fan Control setting is Auto.*
- *It works with ±2 ℃hysteresis. If setting is 40℃, fan on at 42℃and off at 38℃*



1. Press ▲/▼ button to select the **Fan On Temp.** Menu.
2. Use ◂/▸ button to set fan on temperature by Celsius degree unit.
3. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

Shutdown Temperature

- *Adjusts system shutdown temperature by Celsius degree.*
- *It works with +2 ℃hysteresis. If setting is 80℃, it shut down the system at 82℃*



1. Press ▲/▼ button to select the **Shutdown Temp.** Menu.
2. Use ◂/▸ button to set shutdown temperature by Celsius degree unit.
3. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

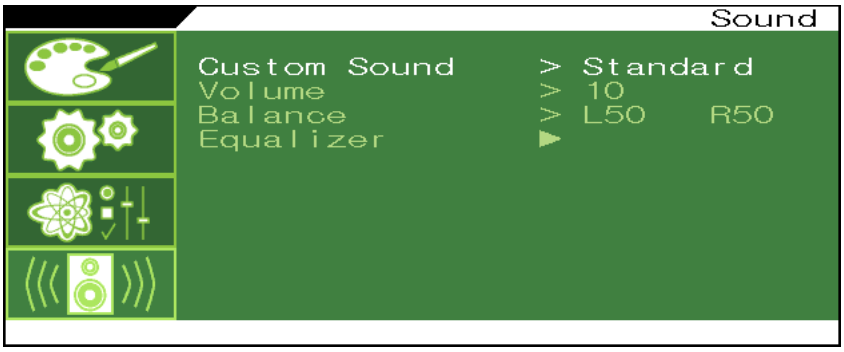
Current temperature

- *Displays current detected main / aux sensor's temperature.*

SOUND MENU

Custom Sound Mode

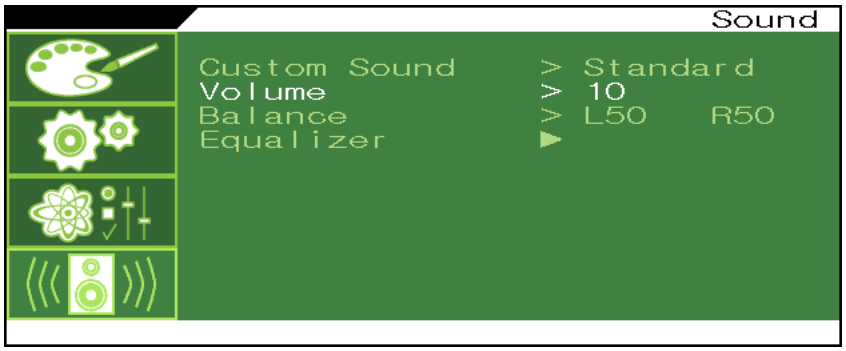
- *Selects preset sound mode.*



1. Press the **MENU** button and then use ▲/▼ button to select the **SOUND**.
2. Press the ▸ /**ENTER** button and then use ▲/▼ button to select **Custom Sound** menu.
3. Press ▸ /**ENTER** button and then use ◂ /▸ button to select preset sound.
4. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

Volume Control

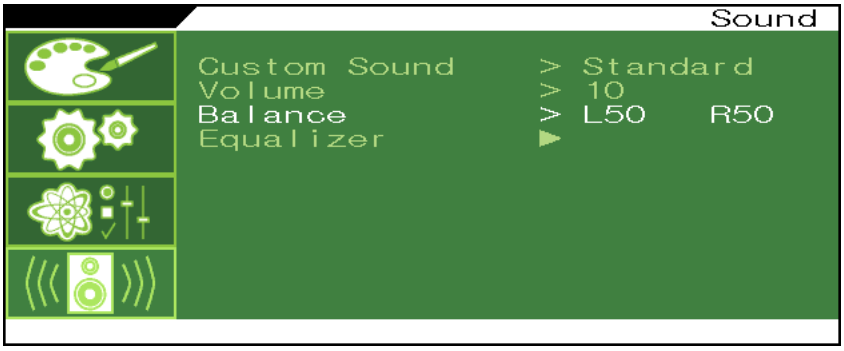
- *Adjust the sound to suit your taste and room situations.*



1. Press the **MENU** button and then use ▲/▼ button to select the **SOUND**.
2. Press the ▸ /**ENTER** button and then use ▲/▼ button to select **Volume** menu.
3. Press ▸ /**ENTER** button and then use ◂ /▸ button to make appropriate adjustments.
4. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

Balance

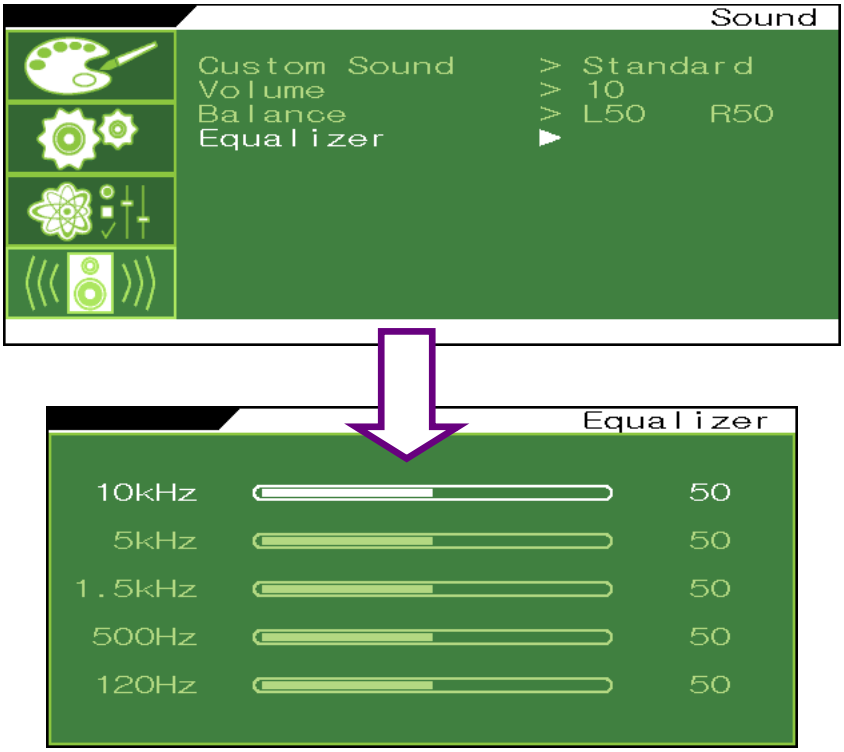
- *Adjusts sound balance of left / right speaker out*



1. Press the **MENU** button and then use ▲/▼ button to select the **SOUND**.
2. Press the ▸ /**ENTER** button and then use ▲/▼ button to select **Balance** menu.
3. Press ▸ /**ENTER** button and then use ◂ /▸ button to make appropriate adjustments.
4. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

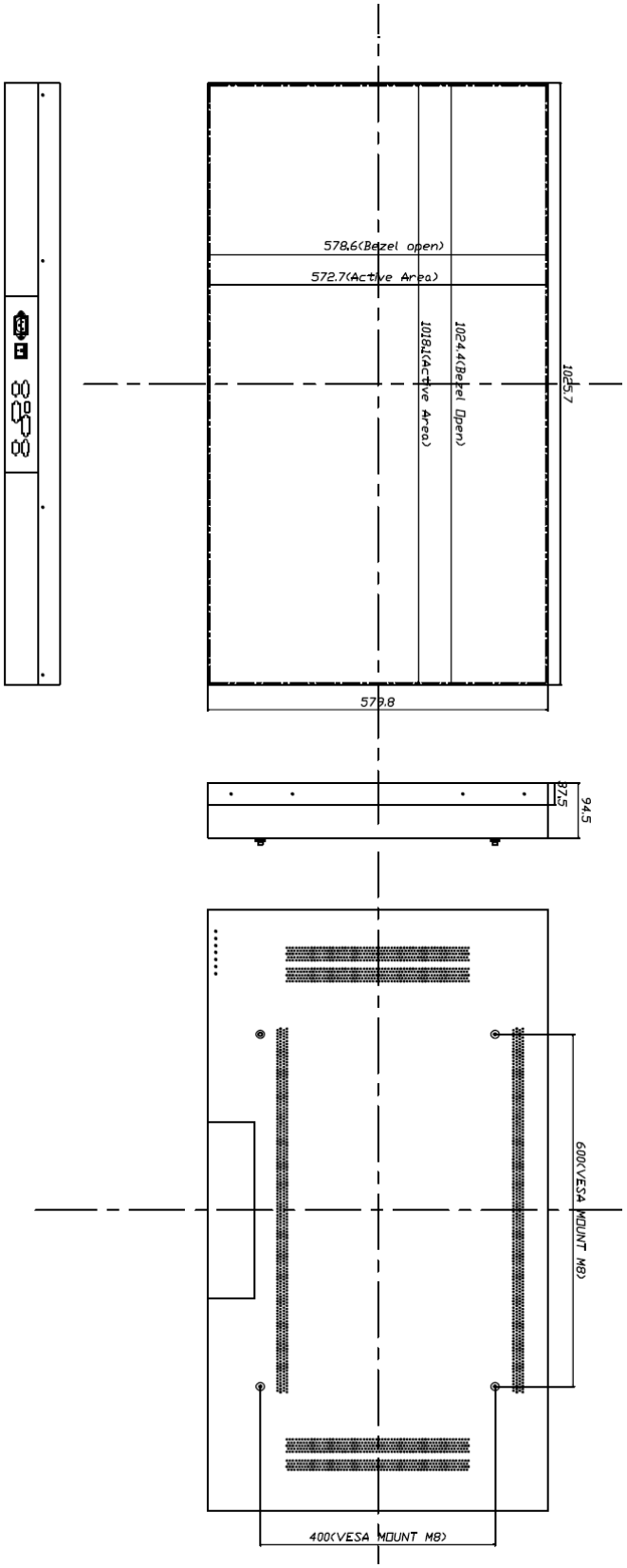
Equalizer

- *Adjusts sound volumes by frequency bands*



1. Press the **MENU** button and then use ▲/▼ button to select the **SOUND**.
2. Press the ▸ /**ENTER** button and then use ▲/▼ button to select **Equalizer** menu.
3. Press the ▸ /**ENTER** button and then use ▲/▼ button to select **Frequency Band** to adjust.
4. Press ◂ /▸ button to make appropriate adjustments.
5. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

Mechanical Dimension



Trouble Shooting

If DID monitor seems to have a problem, first check the following list of possible problem and solutions before contacting a service center. If none of these troubleshooting tips apply, do not attempt to service the product by yourself. Call service center.

The video function does not work.	
No picture & No sound.	Check whether the product is turned on. Is the power cord inserted into wall power outlet? Test the wall power outlet, plug another product's power cord into the outlet where the product's power cord was plugged in.
Picture appears slowly after switching on.	This is normal; the image is muted during the product startup process. Please contact your service center, if the picture has not appeared after five minutes.
No or poor color or poor picture.	Adjust Color in menu option. Keep a sufficient distance between the product and the devices. Are the source cable installed properly? Activate any function to restore the brightness of the picture.
Horizontal / Vertical bars or picture shaking.	Check for local interference such as an electrical appliance or power tool.
Poor reception on some channels.	Station or cable product experiencing problems, tune to another station. • Check for sources of possible interference.

The operation does not work normally	
The remote control doesn't not work	Check to see if there is any object between the product and the remote control causing obstruction. Are batteries installed with correct polarity (+ to +, - to -)? Install new batteries.
Power is suddenly turn off.	Is the sleep timer set? Check the power control settings. Power interrupted. No source on station turned with Auto-off activated.

The audio function does not work.	
Picture OK & No sound.	Press the VOL or VOLUME button Sound muted? Press MUTE button Try another channel. The problem may be with the broadcast Are the audio cables installed properly?
No output from one of the speakers.	Adjust Balance in menu option.
Unusual sound from inside the product.	A change in ambient humidity or temperature may result in an unusual noise when the product is turned on or off and does not indicate a fault with the product.

There is a problem in PC mode. (Only PC mode applied)	
The signal is out of range.	Check the specification of graphic card. Check it whether the signal cable is connected or loose. Check the input source.
Vertical bar or stripe on background & Horizontal Noise & Incorrect position.	Work the Auto adjust, or phase, or H/V position, Frequency.
Screen color is unstable or single color.	Check the signal cable. Reinstall the PC video card.

Serial Control Protocol

CABLE PIN MAP

From PC to Bluebird

PC (DSUB-9 Female)	Pin #		Pin#	BLUEBIRD (DSUB-9 Female)
TX	3	→	2	RX
RX	2	←	3	TX
GND	5	—	5	GND

From Bluebird to Bluebird for daisy chain

MASTER (DSUB-9 Female)	Pin #		Pin#	SLAVE (DSUB-9 Female)
TX	3	→	2	RX
RX	2	←	3	TX
GND	5	—	5	GND
IR LOOP Through	9	→	9	IR LOOP Through

Pin#9 connection is needless when not using IR remote control daisy chain.

UART SETTINGS

Baud Rate	19200 BPS
Data Bit	8 Bit
Stop Bit	1 Bit
Parity Bit	None

PACKET FORMAT

From PC to Monitor

1	2	3	4	5	6
HEADER	ID	LENGTH	EXE_TYPE	CMD	VALUE
0xA5	0x00~0xFF	0x4	Bit0,1,2	0x00~0x09	0xXX

Monitor Response to PC (It works only when ID is not 0 and EXE_TYPE bit2 is flagged on)

1	2	3	4	5
HEADER	ID	LENGTH	CMD	VALUE
0xA5	0x01~0xFF	0x3	0x00~0x09	0xXX

Execution Type by Bit field flag

Bit0 : Change parameter. (If not flagged on, the setting value (data 6) is ignored.
Bit1 : Execute function.
Bit2 : Require response of parameter value.

ID Recognition

0x00 : To all monitor when setting to all monitors
(No response from monitor when getting data from monitor).
0x01~0xFF : To specific monitor when setting to monitor or getting data from monitor.

Command List

Command No.	Description	Setting Value	Comments
0x00	Power	0(off)/1(on)	Only Execution Available
0x01	Source	1(RGB)/2(DVI)/3(HDMI)/4(AV) 5(SVideo)/6(Component)	
0x02	Video wall HMax	1~16	
0x03	Video wall VMax	1~16	
0x04	Video wall HPosition	0~Video wall HMax-1	
0x05	Video wall VPosition	0~Video wall VMax-1	
0x06	Video wall HBezel Correct	0~200	
0x07	Video wall VBezel Correct	0~200	
0x08	Volume	0~100	
0x09	Mute	0(off)/1(on)	Only Execution Available

Video Wall Function Execution

When changing any command No. 0x02~0x07 (video wall parameter), the last one execution applies all parameters.

In case of changing parameters 0x02,0x03,0x04,0x05, 0x02~0x4’s execution type is ‘001b’ (only change parameter) and 0x05’s execution type is ‘011b’ (change & execute) for rapid video wall setting.

When applying video wall parameters and execute to multi monitors, change only parameters of each monitor without execution by using ‘001b’ execution type and send write any video wall command (0x02~0x07) with ID#0 by using ‘010b’ execution type.

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